

WHAT IS CLAIMED AS NEW AND DESIRED TO BE SECURED BY  
LETTERS PATENT OF THE UNITED STATES IS:

1. An impingement flow for a wall part (3), in  
which a plurality of impingement orifices (2) are  
5 arranged areally in a plane or curved carrier (1), the  
carrier being arranged at a distance from the wall  
part, and the impingement area, to be cooled or heated,  
of the wall part (3) being designed as a relief,  
wherein
- 10 - that side of the wall part (3) which faces the  
impingement jet is provided with a number of troughs  
(4) arranged next to one another, at least one  
impingement jet per trough (4) being provided, which  
impingement jet strikes the trough base at least  
15 approximately perpendicularly, and  
- that side of the wall part (3) which is remote  
from the impingement jet is of at least roughly plane  
design.
2. The impingement flow as claimed in claim 1,  
20 wherein the trough (4) has the shape of a circle  
segment or of a base area related thereto.
3. The impingement flow as claimed in claim 2,  
wherein the trough is of rotationally symmetrical or  
longitudinally extended design.
- 25 4. The impingement flow as claimed in claim 1,  
wherein the wall part (3) is connected indirectly or  
directly to the carrier (1) via webs (7) formed between  
the troughs (4).
5. The impingement flow as claimed in claim 1,  
30 wherein the wall part (3) to be cooled or heated is  
made together with the troughs (4) as a casting.
6. The impingement flow as claimed in claim 1,  
wherein the impingement orifices (2) form the inlet (2)  
of impingement tubes (21), the mouth (23) of which is  
35 directed toward the wall part (3) to be cooled or  
heated.

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